

## **Declaration for Patent Application**

[ ] Supplemental (37 C.F.R. §1.67)

named inventor, I hereby declare that:

My residence, mailing address and citizenship are as stated next to my name;

I believe I am the original, first and sole inventor (if only one name is listed) or an original, first and joint inventor (if plural names are listed in the signatory page(s) commencing at page 2 hereof) of the subject matter which is claimed and for which a patent is sought on the invention entitled

is claimed and for which a patent is sought on the invention entitled  Damage Tolerance Using Adaptive Model-Based Methods			
the spe	cification of which (check one)		
[]	is attached hereto.		
[X]	was filed on January 22, 2004 as United States Application Number 10/763,573.		
[]	was filed on [PCT Filing Date] as PCT International Application No. [PCT Appl'n No.] [and assigned United States Application No. [ ]].		
[]	and was amended on [ ] (if applicable).		
includi	I hereby state that I have reviewed and understand the contents of the above-identified specification, ing the claims, as amended by any amendment referred to above.		
§1.56, filing of applica	I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. including for continuation-in-part applications, material information which became available between the late of the prior application and the national or PCT international filing date of the continuation-in-part ation.		
or inve	I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent		

I hereby claim foreign priority benefits under 35 U.S.C. 119 or 365 of any foreign application(s) for patent or inventor's certificate, or of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed:

	<u>P</u> 1	rior Foreign Application(s)	N	ority ot imed	(		ified Filed N	l? IO
(Number)	(Country)	(Day/Month/Year filed)	[	]	[	]	[	]
(Number)	(Country)	(Day/Month/Year filed)	[	]	[	]	[	]
(Number)	(Country)	(Day/Month/Year filed)	[	]	[	]	[	]



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole		
or first inventor	Neil J. Goldfine	
Inventor's Signature		Date
Residence	141 Evelyn Read	
	Newton, Massachusetts 02468	
Citizenship	USA	
Mailing Address	same	
Full name of second join	t	
inventor, if any	Vladimir A. Zilberstein	
Inventor's Signature	1/1) ().	Date
Residence	•	
Citizenship		
Mailing Address		
Full name of third joint		
inventor, if any		
Inventor's Signature	Jan (.Gw)	Date <u>04 MA 7 11</u>
Residence	13 Willow Street	
	Reading, Massachusetts 01867	
Citizenship	USA	
Mailing Address		
Full name of fourth joint		
•	Andrew P. Washabaugh	
Inventor's Signature	andrew P. Washelsaye	Date <u>5/29/04</u>
Residence	1413 Granite Springs Drive	
	Chula Vista, California 91915	
Citizenship	USA	
Citizenship	USA same	

HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

POWER OF ATTORNEY OR AUTHORIZATION OF AGENT AND

**CORRESPONDENCE ADDRESS** 

Application Number	10/763,573
Filing Date	January 22, 2004
First Named Inventor	Neil J. Goldfine
Confirmation Number	4895
Group Art Unit	2857
Examiner Name	Not assigned
Attorney Docket Number	1884.2021-001

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DAMAGE TOLERANCE USING ADAPTIVE MODEL-BASED METHODS

I/We hereby appoint   [X] the attorneys/agents associated with Customer No. 021005   Practitioner(s) named below:    as my/our attorneys/agents to prosecute the application identified above, including any continuation or divisional applications thereof, and to transact all business in the United States Patent and Trademark Office connected therewith.  The correspondence address for the above-identified application is: [X] Customer Number 021005  Hamilton, Brook, Smith & Reynolds, P.C. 530 Virginia Road P.O. Box 9133  Concord, Massachusetts 01742-9133 [] Other  Please direct all telephone calls and facsimiles to: Name James M. Smith, Esq. Tel. No. 978-341-0036 Fax No. 978-341-0136  I am the: [] Applicant/Inventor. [X] Authorized representative of the Assignee, JENTEK Sensors, Inc., of the entire interest. See 37 C.F.R. § 3.73(b) is enclosed.  [] Authorized representative of the Assignee, [], together with [], of the entire interest. A Statement under 37 C.F.R. § 3.73(b) is enclosed.  [] Authorized representative of the Assignee, [], together with [], of the entire interest. A Statement under 37 C.F.R. § 3.73(b) is enclosed.  [] Authorized representative of the Assignee, [], together with [], of the entire interest. A Statement under 37 C.F.R. § 3.73(b) is enclosed.  [] Authorized representative of the Assignee, [], together with [], of the entire interest. A Statement under 37 C.F.R. § 3.73(b) is enclosed.		
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Concord, Massachusetts 01742-9133  [ ] Other	530 Virg	ginia Road
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Signature Du Watern		SIGNATURE of Applicant or Assignee of Record
the lime.	Name & Title	Joni Hatem, Vice President
	Signature	Di Dotene
	Date	Larlot



## STATEMENT UNDER 37 C.F.R. § 3.73(b)

Invento	r(s):	Neil J. Goldfine, Vladimir A. Zilberstein, I	David C. Grundy and Andrew P. Wash	nabaugh
Applica	tion No.	o./Patent No.: 10/763,573	Filed/Issue Date:	January 22, 2004
For:		DAMAGE TOLERANCE USING ADAPT	TIVE MODEL-BASED METHODS	
	<del></del>			
	JENTE	EK Sensors, Inc. (Name of Assignee)	, a <u>corporation</u>	nin university government agency etc.)
		(tune of rissignee)	(1)pe of resignee, e.g., corporation, participal	np, aniversity, government agency, every
states th	iat it is			
A.	[X]	the assignee of the entire right, title and int	erest in the patent application identific	ed above; or
B.	[ ]	an assignee together with [ ] of the above.	e entire right, title and interest in the p	patent application identified
The rigl	ht, title a	and interest of the above-named assignee in the	ne patent application identified above	is established by virtue of:
A. [ X ]		signment from the inventor(s) of the patent ap rademark Office at Reel, Fram		
OR				
B.[]	A chair	in of title from the inventor(s) of the patent ap	plication identified above, to the curre	ent assignee as shown below:
	1.	From:To:	•	
	1.	The document was recorded in the United	States Patent and Trademark Office at	_ i
		Reel, Frame,		
	2.	From: To:		_
		The document was recorded in the United Reel, Frame	States Patent and Trademark Office at	t
	_			
	3.	From: To: To: The document was recorded in the United	States Patent and Trademark Office at	_ t
		Reel, Frame,		•
	[ ] Ad	Additional documents in the chain of title are l	isted on a supplemental sheet.	
The unc	dersigned	ed (whose title is supplied below) is authorized	d to act on behalf of the assignee.	
Date:	6	0/2/04		
Name:_	Vo	oni Clatery		
Title:	Vi	ice President		
Signatu	re:	hi Notam		

## <u>ASSIGNMENT</u>



WHEREAS, we, Neil J. Goldfine, Vladimir A. Zilberstein, David C. Grundy and Andrew P. Washabaugh, have invented a certain improvement in Damage Tolerance Using Adaptive Model-Based Methods described in an application for Patent,

[]	the specification of which is being executed on even date herewith and is about to be filed in the United States Patent Office (use for utility (37 CFR § 1.53(b)) and design filings only);
[]	is about to be filed in the United States Patent Office as a Provisional Application
[X]	the specification of which is United States Application No. 10/763,573, filed January 22, 2004;
[]	the specification of which is a Patent Cooperation Treaty Application, International Application No. [ ], which designates the United States of America;
[]	which was patented under United States Patent No. [ ].

WHEREAS, JENTEK Sensors, Inc. (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 110-1 Clematis Avenue, Waltham, Massachusetts, 02453-7013, desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America. its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts

which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any future applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the

Inventor's Signature:

State/Commonwealth

of 

Massachusetts

County of 

Middlesset

On this 

25H day of 

May of 

M

Inventor's Signature: Wadinier a. Silble	ostein
Vladimir A. Zilberstein	
State/Commonwealth	
of <u>Massachusetts</u>	•
County of <u>Hiddlesey</u>	
On this, 20_4_, before notary public, personally appeared Vladimir A. Zilberstein,	me, the undersigned
personally known to me, or	
proved to me through satisfactory evidence of identification, whice	h was
to be the person whose name was signed on the foregoing instrument in acknowledged that he/she signed the foregoing instrument as his/her free	act and deed.
(SEAL) Kathleen M. Surprenant (print na	ublic
Kathleen M. Surprenant (print na	me)
My Commission expires 1/22/6	
Inventor's Signature:	
David C. Grundy	
David C. Grundy State/Commonwealth	
State/Commonwealth of <u>Massachusette</u>	
David C. Grundy State/Commonwealth	
State/Commonwealth of <u>Massachusette</u> County of <u>Middlesex</u>	e me, the undersigned
State/Commonwealth  of <u>Mas Sachusetts</u> County of <u>Middlesex</u> On this // H day of May , 2004, before	e me, the undersigned
David C. Grundy  State/Commonwealth  of   Massachusetts  County of   Middleset  On this   // H day of   May , 20 04, before notary public, personally appeared David C. Grundy,	
State/Commonwealth  of	th was my presence, and e act and deed.
State/Commonwealth  of	th was my presence, and e act and deed.
David C. Grundy  State/Commonwealth  of   Massachusetts  County of   Middleset  On this   May of   May of   May , 20 04, before notary public, personally appeared   personally known to me, or  proved to me through satisfactory evidence of identification, which to be the person whose name was signed on the foregoing instrument in acknowledged that he/she signed the foregoing instrument as his/her free	th was my presence, and e act and deed.

Inventor's Signature: Mudiew F. Wababayl
Andrew P. Washabaugh
State/Commonwealth
of California
County of San Diego
On this
personally known to me, or
proved to me through satisfactory evidence of identification, which was
to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.
Notary Public
Commission # 1399125 Notary Public - California   HELDI Adams (print name)
San Diego County My Comm. Expires Feb 8, 2007 My Commission expires 02 / 08 / 07